

PATNO IS 5565109

DATE: OCTOBER 25, 2002
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UNITED STATES PATENT AND TRADEMARK OFFICE REEXAMINATION
CERTIFICATE

5565109

REEXAMINATION CERTIFICATE B1 (3940th)

November 23, 1999

Hydantoin-Enhanced Halogen Efficacy in Pulp and Paper
Applications

REISSUE: Reissue Application filed Jan. 10, 2002, (O.G. May 28, 2002) Ex. Gp.:
1724; Re. S.N. 10/044,594, May 28, 2002

APPL-NO: 323459 (08)

FILED-DATE: October 14, 1994

GRANTED-DATE: November 23, 1999

CORE TERMS: compounds, slimicide, stream, pulp, organic matter, efficacy,
halogen, halogenated, processing, organic

ENGLISH-ABST:

Free halogen sources (e.g., sodium hypochlorite and chlorine) added as slimicides in high organic component process streams such as pulp and paper processing are rendered more efficacious by the addition of selected N-hydrogen compounds (namely, 5,5-dimethylhydantoin, 5-ethyl-5-methylhydantoin, cyanuric acid, succinimide, urea, 4,4-dimethyl-2-oxazolidinone, and glycouril) to the process stream. The latter compounds may be added to the process stream before or after the slimicide is added or combined with the slimicide and added directly thereto. The direct use of halogenated hydantoins has also been found to provide improved efficacy relative to free halogen sources. In addition, absorbable organic halogen by-products are reduced.

5565109 OR 5,565,109

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